

Appendix A

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NATIONAL 134-593A

2001-02-14 05:47:23

***** SAFETY DATA SHEET *******1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME NATIONAL 134-593A

SUPPLIER National Starch & Chemical
Adhesives Division
Wexham Road
Slough
Berkshire
SL2 5DS

Emergency telephone: +44 (0)1753 533494

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY	CAS NUMBER	CONCENTRATION %	EC SYMBOL RISK PHRASES
No components which pose a risk.			

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Not classified as dangerous.

EYE As supplied: irritant as a foreign body. As used: severe thermal hazard.

SKIN CONTACT As supplied: no hazard. As used: severe thermal hazard.

INHALATION Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

INGESTION Low oral toxicity.

PAGE 1 OF 5

NATIONAL 134-593A

2001-02-14 05:47:23

4. FIRST-AID MEASURES

EYE	If hot: flush with cool water. Treat as a wax or resin burn. Do not attempt to remove solidified adhesive. Get medical attention immediately. As supplied: remove as foreign body.
SKIN CONTACT	If hot: flush with cool water. Treat as wax or resin burn. Do not attempt to remove solidified adhesive. Get medical attention immediately. As supplied: Non-hazardous.
INHALATION	Remove to fresh air. Get medical attention if irritation persists.
INGESTION	None required.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	CO2; Dry Chemical
SPECIAL FIREFIGHTING PROCEDURES	No special procedures are required.
FIRE & EXPLOSION HAZARDS	Non-combustible.
HAZARDOUS COMBUSTION PRODUCTS	Carbon monoxide, carbon dioxide, unknown hydrocarbons.
FLASH POINT	> 250 °C

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES	Allow to cool and solidify. Scrape up and collect in suitable containers for disposal.
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For safety and environmental precautions, please review entire Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

HANDLING/STORAGE	Store in a cool, dry area. Precaution: this product should only be heated to recommended temperatures. The hazards of pyrolysis products are unknown.
SENSITIVE TO STATIC ELECTRICITY	No
SPECIAL SENSITIVITY	No special sensitivity.

PAGE 2 OF 5

NATIONAL 134-593A

2001-02-14 05:47:23

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION REQUIREMENTS	Local exhaust over glue chamber.
EYE PROTECTION REQUIREMENTS	Safety glasses, goggles or face shield to protect against splashing.
GLOVE REQUIREMENTS	Thermally resistant gloves should be worn.
CLOTHING REQUIREMENTS	Uniforms, coveralls, or a lab coat should be worn.
RESPIRATORY REQUIREMENTS	None required if good ventilation is maintained.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR PREPARATION	Preparation.
PHYSICAL FORM	Solid
COLOUR	amber
ODOUR	No odour.
BOILING POINT	> 250 °C
MELTING/FREEZING POINT	90 - 100 °C
SOLUBILITY IN WATER	Insoluble; Water.
RELATIVE DENSITY	1.000
FLASH POINT	> 250 °C

10. STABILITY AND REACTIVITY

STABILITY	Stable Not applicable.
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11. TOXICOLOGICAL INFORMATION

EYE	As supplied: irritant as a foreign body. As used: severe thermal hazard.
SKIN	As supplied: no hazard. As used: severe thermal hazard.
INHALATION	Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
INGESTION	Low oral toxicity.

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE	Although this product has not been tested for chronic effects it is judged as having a low order of toxicity based on component information. Use of good industrial hygiene practices is recommended.
TARGET ORGANS	None known.
SKIN SENSITIZATION	No.
POSSIBLE BIRTH DEFECT HAZARD	No.

PAGE 3 OF 5

NATIONAL 134-593A

2001-02-14 05:47:23

CARCINOGEN	No.
PRODUCT INFORMATION	Not established.

12. ECOLOGICAL INFORMATION

POTENTIAL EFFECT ON ENVIRONMENT	Unknown.
MOBILITY	Unknown.
PERSISTENCE AND DEGRADABILITY	Unknown.
POTENTIAL TO BIOACCUMULATE	No
ECOTOXICITY	Unknown.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS	Waste disposal should be in accordance with existing Community, National and local regulations.
EMPTY CONTAINER WARNINGS	Not needed.

14. TRANSPORT INFORMATION (See also section 9)

IATA CLASSIFICATION	Not classified as dangerous.
IMDG CLASSIFICATION	Not classified as dangerous.
ADR/RID	Not classified as dangerous.

15. REGULATORY INFORMATION

Not classified as dangerous.

EINECS All components of this product are listed in EINECS or ELINCS.

Directives 1999/45/EC and 91/155/EEC have been considered when compiling this SDS; the information is provided for health and safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety, and environmental legislation. This information does not constitute indication of suitability for specific uses.

PAGE 4 OF 5

NATIONAL 134-593A

2001-02-14 05:47:23

16. OTHER INFORMATION

MSDS DATE	14-February-2001
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PAGE 5 OF 5